



SEQUENCE LISTING

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<120> HEREGULIN VARIANTS

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<130> 402E-476112US

<140> US 10/082,747
<141> 2002-02-22

<150> US 09/101,544
<151> 1998-07-17

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<151> 1998-02-10

<150> US 08/799,054
<151> 1997-02-10

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<170> FastSEQ for Windows Version 3.0

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Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala
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Glu Glu Leu Tyr Gln Lys Arg
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Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
20 25 30
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Lys Arg
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Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr

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Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr

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Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr

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Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro

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Glu

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Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr

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Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn

35

40

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Cmt

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Gly	Gly	Glu	Cys	Phe	Thr	Val	Lys	Asp	Leu	Ser	Asn	Pro	Ser	Arg	Tyr
														20	30
Leu	Cys	Lys	Cys	Pro	Asn	Glu	Phe	Thr	Gly	Asp	Arg	Cys	Gln	Asn	Tyr
														35	45
Val	Met	Ala	Ser	Phe	Tyr	Lys	His	Leu	Gly	Ile	Glu	Phe	Met	Glu	Ala
														50	60
Glu	Glu	Leu	Tyr	Gln	Lys	Arg									
65			70												

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Gly	Gly	Glu	Cys	Phe	Thr	Val	Lys	Asp	Leu	Ser	Asn	Pro	Ser	Arg	Tyr
														20	30
Leu	Cys	Lys	Cys	Pro	Asn	Glu	Phe	Thr	Gly	Asp	Arg	Cys	Gln	Asn	Tyr
														35	45
Val	Met	Ala	Ser	Phe	Tyr	Lys	Ala	Glu	Glu	Leu	Tyr	Gln	Lys	Arg	
														50	60

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Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
20 25 30
Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn
35 40 45
Val Pro Met Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro Glu
50 55 60

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<213> Rattus rattus

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Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
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20 25 30
Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn
35 40 45
Val Pro Met Phe Tyr Ser Met Thr Ser Arg Arg Lys Arg Gln Glu Thr
50 55 60
Glu Lys Pro Leu Glu Arg Lys Leu Phe His Ser Leu Val Lys Glu Ser
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Lys

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 20 25 30
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
 35 40 45
Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro
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Glu
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Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
 20 25 30
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
 35 40 45
Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro
 50 55 60

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Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
 20 25 30
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr

35 40 45

Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro
50 55 60

Glu

65

<210> 13
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<212> PRT
<213> Gallus domesticus

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Ser His Leu Thr Lys Cys Asp Ile Lys Gln Lys Ala Phe Cys Val Asn
1 5 10 15

Gly Gly Glu Cys Tyr Met Val Lys Asp Leu Pro Asn Pro Pro Arg Tyr
20 25 30

Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
35 40 45

Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala
50 55 60

Glu Glu Leu Tyr Gln Lys Arg
65 70

<210> 14
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<213> Not relevant (recombinant)

Pl
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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
1 5 10 15

Gly Gly Glu Cys Phe Met Val Lys Asp Pro Ser Arg Tyr Leu Cys Lys
20 25 30

Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala
35 40 45

Ser

<210> 15
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Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
1 5 10 15
Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn
20 25 30
Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Arg
35 40 45

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<400> 16
Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Phe Met Val Lys Asp Pro Ser Arg Tyr Leu Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala
35 40 45

Ser

B1
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Trp Glu Leu Val Pro Cys Gly Trp Asp Arg Glu Gly Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
20 25 30

Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr

35 40

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Val Ile Ala Ser

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<210> 18

<211> 49

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<213> Not relevant (recombinant)

<400> 18

Trp Glu Leu Val Pro Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn

1 5 10 15

Gly Gly Glu Cys Tyr Lys Val Arg Ile Tyr Gly Tyr Leu Met Cys Lys

20 25 30

Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala

35 40 45

Ser

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20 25 30

Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala

35 40 45

Ser

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Trp Glu Leu Val Pro Cys Gly Trp Asp Arg Glu Gly Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Tyr Lys Val Arg Ile Tyr Arg Tyr Arg Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala
35 40 45

Ser

<210> 21

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<213> Not relevant (recombinant)

<400> 21

Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Phe Met Val Lys Asp Tyr Gly Tyr Leu Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala
35 40 45

Ser

B1
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1 5 10 15
Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser Arg Tyr
20 25 30
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr

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Val Met Ala Ser

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Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn

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15

Gly Gly Glu Cys Phe Met Val Lys Asp Tyr Gly Tyr Leu Met Cys Lys

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Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala

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Ser

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<400> 24

Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn

1

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10

15

Gly Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys

20

25

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Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala

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Ser

<210> 25

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Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
20 25 30
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
35 40 45
Val Ile Ala Ser
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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala
35 40 45

Ser

<210> 27

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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala
35 40 45

Ser

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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser Arg Tyr
20 25 30
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
35 40 45
Val Ile Ala Ser
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Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser Arg Tyr
20 25 30
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
35 40 45
Val Ile Ala Ser
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<400> 30

Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Phe Met Val Lys Asp Tyr Gly Tyr Leu Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala
35 40 45

Ser

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<400> 31

Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn
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Gly Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Ile Ala
35 40 45

Ser

<210> 32

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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
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Gly Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln His Tyr Val Ile Ala
35 40 45

Ser

<210> 33
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Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys Val Asn
1 5 10 15
Gly Gly Glu Cys Tyr Arg Val Lys Thr Tyr Gly Tyr Leu Met Cys Lys
20 25 30
Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln His Tyr Val Ile Ala
35 40 45

Ser

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Thr Arg Asp Lys Thr

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Asp Asp Asp Asp Lys

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Ser His Leu Val Lys

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<210> 39

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Trp Arg Leu Val Pro

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Trp Ser Leu Gln Pro

1 5

<210> 41

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Trp Glu Leu Val Pro

1 5

<210> 42

<211> 5

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Trp Ser Leu Val Lys

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Trp Ser Leu Ile Pro

1 5

<210> 44

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Trp Arg Leu Val Ala

1

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Trp Ala Leu Val Pro

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Trp Ser Leu Gln Lys

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Trp Glu Leu Val Ala

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Trp Ser Leu Glu Pro

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Ala Glu Lys Glu Lys Thr
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Gly Val Gly Arg Asp Gly
1 5

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Gly Gly Glu Arg Glu Gly
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Gly Glu Glu Arg Glu Gly
1 5

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Gly Trp Asp Arg Glu Gly
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Gly Val Gln Arg Glu Gly
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Gly Glu Glu Arg Ala Gly
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Gly Lys Glu Arg Glu Gly
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Thr Asn Ser Arg Glu Gly

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Asp Lys Ser Arg Glu Gly

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Gly Glu Asp Arg Lys Gln

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Gly Arg Glu Arg Glu Gly

1 5

<210> 61

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<213> Homo sapiens

<400> 61

Val Asn Gly Gly Glu

1 5

<210> 62

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Val Asn Gly Gly Glu

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Val Asn Gly Gly Val

1 5

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Val Asn Gly Gly Gln

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Phe Met Val Lys Asp

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Tyr Lys Val Arg Ile
1 5

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Phe Arg Val Lys Thr
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Tyr Arg Val Lys Thr
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Tyr Met Ile Lys Tyr
1 5

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Tyr Met Val Lys Thr

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Met Arg Val Arg Thr

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Pro Ser Arg Tyr Leu

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B1
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Thr Pro Tyr Leu Met

1 5

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Tyr Gly Tyr Leu Met

1 5

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Tyr Arg Tyr Arg Met

1 5

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Thr His Tyr Arg Gly

1 5

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Thr His Tyr Arg Met

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<212> PRT

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Tyr Lys Tyr Arg Met

1 5

<210> 79

<211> 5

<212> PRT

<213> Not relevant (recombinant)

<400> 79

Thr Lys Tyr Arg Gly

1 5

<210> 80

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<212> PRT

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<400> 80

Tyr Lys Tyr Arg Leu

1 5

<210> 81

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<213> Homo sapiens


<400> 81

Lys Cys Pro Asn Glu Phe

1 5

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Arg Cys Ser Leu Glu Phe

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Arg Cys Ser Glu Glu Phe

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Lys Cys Pro Lys Glu Met

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Arg Cys Lys Lys Glu Phe
1 5

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Gln Asn Tyr Val Met
1 5

B1
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Gln Trp Tyr Val Ile
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<400> 91

Gln His Tyr Val Ile

1 5

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<213> Homo sapiens

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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn

1 5 10 15

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr

20 25 30

Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr

35 40 45

Val Met Ala Ser

50

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B1
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Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Lys Lys

1 5 10 15

Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser

20 25 30

Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys Ser Gln Glu Ser Ala

35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser

50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys

65 70 75 80

Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu
 85 90 95
 Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys
 100 105 110
 Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr
 115 120 125
 Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu
 130 135 140
 Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr
 145 150 155 160
 Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr
 165 170 175
 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
 180 185 190
 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
 195 200 205
 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
 210 215 220
 Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala
 225 230 235 240
 Glu Glu Leu Tyr Gln Lys Arg Val Leu Thr Ile Thr Gly Ile Cys Ile
 245 250 255
 Ala Leu Leu Val Val Gly Ile Met Cys Val Val Ala Tyr Cys Lys Thr
 260 265 270
 Lys Lys Gln Arg Lys Lys Leu His Asp Arg Leu Arg Gln Ser Leu Arg
 275 280 285
 Ser Glu Arg Asn Asn Met Met Asn Ile Ala Asn Gly Pro His His Pro
 290 295 300
 Asn Pro Pro Pro Glu Asn Val Gln Leu Val Asn Gln Tyr Val Ser Lys
 305 310 315 320
 Asn Val Ile Ser Ser Glu His Ile Val Glu Arg Glu Ala Glu Thr Ser
 325 330 335
 Phe Ser Thr Ser His Tyr Thr Ser Thr Ala His His Ser Thr Thr Val
 340 345 350
 Thr Gln Thr Pro Ser His Ser Trp Ser Asn Gly His Thr Glu Ser Ile
 355 360 365
 Leu Ser Glu Ser His Ser Val Ile Val Met Ser Ser Val Glu Asn Ser
 370 375 380

B
|
Cmt

Arg His Ser Ser Pro Thr Gly Gly Pro Arg Gly Arg Leu Asn Gly Thr
 385 390 395 400
 Gly Gly Pro Arg Glu Cys Asn Ser Phe Leu Arg His Ala Arg Glu Thr
 405 410 415
 Pro Asp Ser Tyr Arg Asp Ser Pro His Ser Glu Arg Tyr Val Ser Ala
 420 425 430
 Met Thr Thr Pro Ala Arg Met Ser Pro Val Asp Phe His Thr Pro Ser
 435 440 445
 Ser Pro Lys Ser Pro Pro Ser Glu Met Ser Pro Pro Val Ser Ser Met
 450 455 460
 Thr Val Ser Met Pro Ser Met Ala Val Ser Pro Phe Met Glu Glu Glu
 465 470 475 480
 Arg Pro Leu Leu Leu Val Thr Pro Pro Arg Leu Arg Glu Lys Lys Phe
 485 490 495
 Asp His His Pro Gln Gln Phe Ser Ser Phe His His Asn Pro Ala His
 500 505 510
 Asp Ser Asn Ser Leu Pro Ala Ser Pro Leu Arg Ile Val Glu Asp Glu
 515 520 525
 Glu Tyr Glu Thr Thr Gln Glu Tyr Glu Pro Ala Gln Glu Pro Val Lys
 530 535 540
 Lys Leu Ala Asn Ser Arg Arg Ala Lys Arg Thr Lys Pro Asn Gly His
 545 550 555 560
 Ile Ala Asn Arg Leu Glu Val Asp Ser Asn Thr Ser Ser Gln Ser Ser
 565 570 575
 Asn Ser Glu Ser Glu Thr Glu Asp Glu Arg Val Gly Glu Asp Thr Pro
 580 585 590
 Phe Leu Gly Ile Gln Asn Pro Leu Ala Ala Ser Leu Glu Ala Thr Pro
 595 600 605
 Ala Phe Arg Leu Ala Asp Ser Arg Thr Asn Pro Ala Gly Arg Phe Ser
 610 615 620
 Thr Gln Glu Glu Ile Gln Ala Arg Leu Ser Ser Val Ile Ala Asn Gln
 625 630 635 640
 Asp Pro Ile Ala Val
 645

B1 CM

<210> 94

<211> 56

<212> PRT

<213> Homo sapiens

<400> 94

Gly Thr Ser His Leu Val Lys Cys Gly Trp Asp Arg Glu Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

<210> 95

<211> 56

<212> PRT

<213> Homo sapiens

<400> 95

Gly Thr Ser His Leu Val Lys Cys Asp Lys Ser Arg Glu Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

B1
Cmt <210> 96

<211> 56

<212> PRT

<213> Homo sapiens

<400> 96

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Lys Val Arg Ile Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln

35

40

45

Asn Tyr Val Ile Ala Ser Phe Tyr

50

55

<210> 97

<211> 56

<212> PRT

<213> Homo sapiens

<400> 97

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys

1

5

10

15

Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Tyr Gly

20

25

30

Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln

35

40

45

Asn Tyr Val Met Ala Ser Phe Tyr

50

55

<210> 98

<211> 56

<212> PRT

<213> Homo sapiens

<400> 98

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys

1

5

10

15

Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Tyr Arg

20

25

30

Tyr Arg Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln

35

40

45

Asn Tyr Val Ile Ala Ser Phe Tyr

50

55

<210> 99

<211> 56

<212> PRT

<213> Homo sapiens

B
|
CONT

<400> 99

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Thr His
20 25 30
Tyr Arg Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Met Ala Ser Phe Tyr
50 55

<210> 100

<211> 56

<212> PRT

<213> Homo sapiens

<400> 100

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Thr Lys
20 25 30
Tyr Arg Gly Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Met Ala Ser Phe Tyr
50 55

B1
cont

<210> 101

<211> 56

<212> PRT

<213> Homo sapiens

<400> 101

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45

Trp Tyr Val Ile Ala Ser Phe Tyr

50 55

<210> 102

<211> 56

<212> PRT

<213> Homo sapiens

<400> 102

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys

1 5 10 15

Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser

20 25 30

Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln

35 40 45

His Tyr Val Ile Ala Ser Phe Tyr

50 55

<210> 103

<211> 56

<212> PRT

<213> Homo sapiens

<400> 103

Gly Thr Trp Glu Leu Val Pro Cys Gly Trp Asp Arg Glu Gly Phe Cys

1 5 10 15

Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser

20 25 30

Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln

35 40 45

Asn Tyr Val Ile Ala Ser Phe Tyr

50 55

<210> 104

<211> 56

<212> PRT

<213> Homo sapiens

B
CMT

<400> 104

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

<210> 105

<211> 56

<212> PRT

<213> Homo sapiens

<400> 105

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Met Ala Ser Phe Tyr
50 55

B1
COMT

<210> 106

<211> 56

<212> PRT

<213> Homo sapiens

<400> 106

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Met Ala Ser Phe Tyr

50

55

<210> 107
<211> 56
<212> PRT
<213> Homo sapiens

<400> 107

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Met Ala Ser Phe Tyr
50 55

<210> 108
<211> 56
<212> PRT
<213> Homo sapiens

<400> 108

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

B1
CWT

<210> 109
<211> 56
<212> PRT
<213> Homo sapiens

<400> 109

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Met Ala Ser Phe Tyr
50 55

<210> 110

<211> 56

<212> PRT

<213> Homo sapiens

<400> 110

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

<210> 111

<211> 56

<212> PRT

<213> Homo sapiens

<400> 111

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

Self
C1
Unt

B1
CMT

<210> 112
<211> 56
<212> PRT
<213> Homo sapiens

<400> 112

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Pro Ser
20 25 30
Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

<210> 113

<211> 56

<212> PRT

<213> Homo sapiens

<400> 113

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

<210> 114

<211> 56

<212> PRT

<213> Homo sapiens

<400> 114

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Gly Phe Cys

1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
Asn Tyr Val Ile Ala Ser Phe Tyr
50 55

<210> 115
<211> 56
<212> PRT
<213> Homo sapiens

<400> 115

Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
His Tyr Val Ile Ala Ser Phe Tyr
50 55

but C' cont

<210> 116
<211> 56
<212> PRT
<213> Homo sapiens

<400> 116

Gly Thr Ser His Leu Val Lys Cys Gly Glu Glu Arg Glu Gly Phe Cys
1 5 10 15
Val Asn Gly Gly Glu Cys Tyr Arg Val Lys Thr Leu Ser Asn Tyr Gly
20 25 30
Tyr Leu Met Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln
35 40 45
His Tyr Val Ile Ala Ser Phe Tyr
50 55